

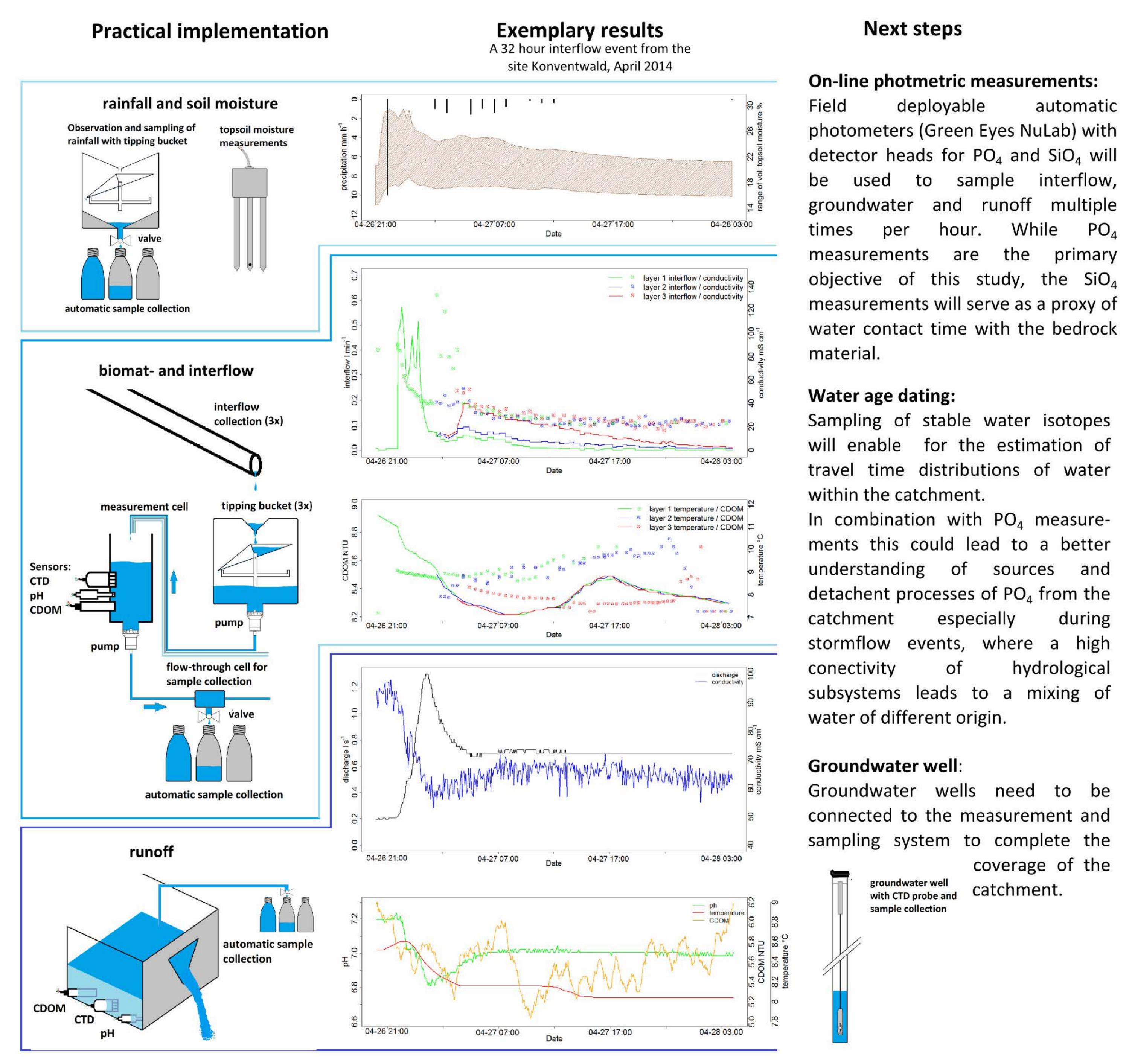
## A measurement system for different hillslope hydrological subsystems



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## **Project aims**

As a prearangement for the final project goal - the observation of  $PO_4$  dynamics in hydrological pathways - a measurement system was set up that provides hydrometrical and hydrochemical data as well as the ability to automatically draw samples from different hydrological subsystems. It is designed to be almost maintanance free, with autonomous energy supply and remote data transmission. The measurement system incorporates rainfall, soil moisture, biomat- and interflow as well as groundwater observation and spring discharge. Current study sites are Konventwald, Mitterfels and Vessertal.



## **Perspective**

The measurement system which is deployed on three field sites has been operational for several months each and proven to work reliably and with minimal maintenance. The automatic measurements have been verified by continious manual measurements. A multitude of biomat-, interflow and stormflow events of various size have been recorded. It is planned to start the PO<sub>4</sub> sampling this fall at the site Konventwald.